



Al Balqa Applied University



Sustainable Development Goals Report 2022



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Foreword

Al-Balqa Applied University (BAU) is a public university in the Hashemite Kingdom of Jordan. The university has a student population of over 50,000 students and satellite campuses across the country. BAU's vision is to be a globally competing applied university distinguished by creativity, innovation, applied scientific research, and leadership. The university is committed to contributing to the knowledge economy and society in Jordan and beyond, and to delivering quality education that meets its students' aspirations in an ever-evolving world.

The estimated total area of BAU is around (11100000 m²). The university campuses include numerous educational, research, medical, sports, and cultural facilities, as well as green spaces and student recreation areas.



The main Campus located on a mountain at Al Salt City

BAU's main campus is located in the ancient city of [As-Salt](#), in Al-Balqa' Governorate, home to a number of important cultural and historical sites, and a [UNESCO world heritage](#) site. Built by Macedonians, [As-Salt](#) occupied an important trading position by Roman, Byzantine, and Mamelukes. Along with its historical value, As-Salt city is located 20 minutes from the lowest point on earth, the [Dead Sea](#) and is very close to the [holy baptism site of Jesus Christ](#) on the East bank of the Jordan River. A sunny day at As-Salt rewards visitors with a breathtaking view of the holy lands.

Alongside BAU's main campus, the university's satellite campuses are hubs for quality education and research and offer students the opportunity to explore Jordan's rich cultural heritage. For example, [Aqaba University College](#) located in Jordan's only port, offers maritime transport technology programs as well as easy access to the golden triangle of [Petra](#), [Wadi Rum](#) and [Aqaba](#). And Shoubak University College, which is located close to the stunning [Dana Biosphere Reserve](#). and [Huson University College](#) in the north, which closest to [Jerash](#) which is the second to Petra on the list of favorite destinations in Jordan

Al-Balqa' Governorate is a province of intellectual heritage and folklore, and it is popular for recreational and religious tourism; traveler may visit many ruins and sacred shrines for Prophet Shu'ayb (Maqam Nabi Shu'ayb), Prophet Joshua Ben-nun, Prophet Gad Ben Jacob, Prophet Ayub, Prophet Hazir, and Prophet Gilad (May Peace Be Upon Them), as well as the shrines of two of Prophet Mohammad (Peace Be Upon Him) Companions: Abu Obeida Al-Jarah and Dirar Ibn Azwar.

Such an integral role along with other cities of the Kingdom was deeply rooted during the establishment of the Emirate of Jordan in 1921 moving towards developing the country. Salt City was prominent with its scientific and educational legacy, which was marked by the founding of Salt School, inaugurated by His Majesty King Abdullah the First – may God rest his soul – (Prince at that time) in 1923, to be the first school in the kingdom having its graduates as great officials and leaders of the nation.

Upon firmly acknowledging the educational and scientific long history of Salt City along with its leading role in the field of education by the Hashemite leadership, Late King Hussein Bin Talal – May God rest his soul – honored Balqa’ governorate by the issuance of the royal decree to establish Balqa’ Applied University in Salt city on the 22nd of August 1996. This has enhanced the city’s role, commemorated the pioneers of its early graduates, and scientifically empowered its legacy which we hope to continually flourish.

Our Strategic Response

Al-Balqa Applied University provides its services through its distributed campuses in Jordan, covering nearly all climatic regions from the highlands in the mid-west to the very dry governorates in the south and far east of Jordan. This diversity in climatic conditions motivated (BAU) to adopt a wide range of activities related to climate variability and change, with the focus on climate adaptation. (BAU) is an innovative university in terms of water and draught research, capacity development, and pioneer technology transfer initiatives ranging from solar energy to wastewater treatment for reuse, to smart agriculture. Moreover, (BAU) established academic technical programs with the focus on smart agriculture, water treatment, smart buildings, electric and hybrid cars, not to mention the various awareness activities in climate change.

On another hand (BAU) adopts the [United Nations Sustainable Development Goals \(UN SDGs\)](#), and Paris Agreement goals which are adopted by all nations as a universal call to protect the planet and ensure that all people enjoy peace and prosperity by 2030 through ethical management of resources, openness to societies and contributing to their development and solving their problems, and creating a conscious generation of its students who adopt the dimensions of sustainable development in their lives,



directing scientific research to contribute to achieving sustainable development, and strengthening national and international partnerships, also (BAU) became a member of [United Nations Academic Impact \(UNAI\)](#), and [United Nation - Sustainable Development Solution Network \(UNSDSN\)](#).



BAU membership certificate in UNAI
<https://academicimpact.un.org/>

INTRODUCTION:

Al-Balqa Applied University adopts a sustainable continuous improvement policy, which aims to implement SDGs in all strategic and action plans through several initiatives, projects, and programs, so it restructures the university and faculties, manages its resources effectively, promotes innovative teaching and learning and scientific research initiatives, as well as increases its national and international partnerships.

With the aim of developing the university's methodology in working towards enhancing its role on achieving the United Nations sustainable development goals, the university established [Sustainability Office](#), and adopted best practices through the university's participation in the international Rankings which related to sustainable development, where it is achieving a quality leaps in last year, first locally and ranked (52) globally in [UI-GreenMetric Ranking](#) , and according to the [THE Impact Ranking of universities](#) (BAU) has achieved successive achievements over several years, It ranked 1st among Jordanian universities in 13th goal (climate action), and ranked (94) in the world in the 4th goal (quality education), 2nd locally in the 17th (Partnership for the SDGs).

The Sustainable Development Goals (SDGs) framework includes 17 goals designed to stimulate action in areas of critical importance for humanity and the planet, adopted these goals by organizations cross the world in order to evaluate their work and prioritize its future actions.

(BAU) is committed to promoting the knowledge, skills, and experience of students to serve as agents of change, community leaders, and responsible global citizens. in addition of that BAUs' faculty and students are teaching, learning, and exploring sustainability through hundreds of courses, programs, and research projects.

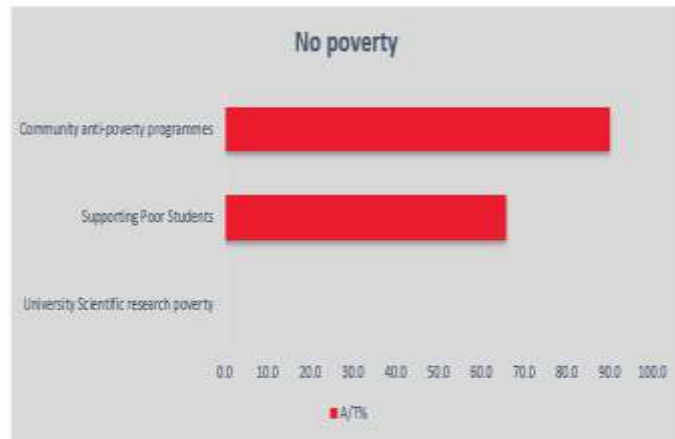
Consistent with the perspective adopted in the [Strategic Plan 2021-2025](#), BAU proposes pioneering and inventive ways by activities, projects and programs, including training, research, and social and public engagement, aimed at the achievement of the Sustainable Development Goals (SDGs) of the [UN 2030 Agenda for Sustainable Development](#) .

End All Forms of Poverty Everywhere:



Al-Balqa Applied University is committed to providing support to the local community, therefore, BAU aligned its strategy, internal policies, and governance to embrace and implement the SDGs and already is contributing to the development of No Poverty "GOAL 1", especially with its geographical spread. BAU provides various grants under its partnerships with donor institutions for students enrolled at BAU. It supports students faced with financial difficulties that may be affecting their studies, in addition to the BAU Students' Support Fund, BAU has set many **Sub Goals related to SDG1** in its all forms, and these goals can be shortlisted as follows:

1. Commitment and supporting scientific research for fighting poverty.
2. Supporting poor students so they can complete their university studies and help them overcome harsh conditions.
3. Contribution and participation in anti-poverty programs.



Strategic Achievement for SDG1 /2022

SUPPORT & FINANCIAL AID

BAU has taken many steps to support low-income students through its own procedures and its partnership with the Ministry of Higher Education and Scientific Research, local community organizations, in addition to student support fund at the university.

BAU also provides fund to "Poor Student Support Fund" which supports students at all Jordanian universities through MOHE. e.g., around 20,000 students have benefited from grants and loans.

AFFORDABLE HOUSING AND EDUCATION RESOURCES

BAU also started to support needy female students, BAU also has reduced study fees the master's programs, in addition to canceling the fees for English language books.



LOCAL COMMUNITY

BAU carries out activities that help local community groups to develop themselves by providing material, financial and logistical support to establish their important activities in order to help them marketing themselves and their products; by creating sales points, festivals and bazaars. in addition of providing them a full support to establish periodically bazaars in different regions of the country e.g. Pomegranate festival and festival of the best local olive oil, BAU also is organizing many events related to orphans and poor people from the local community, such as charitable activities, free medical days and other activities.

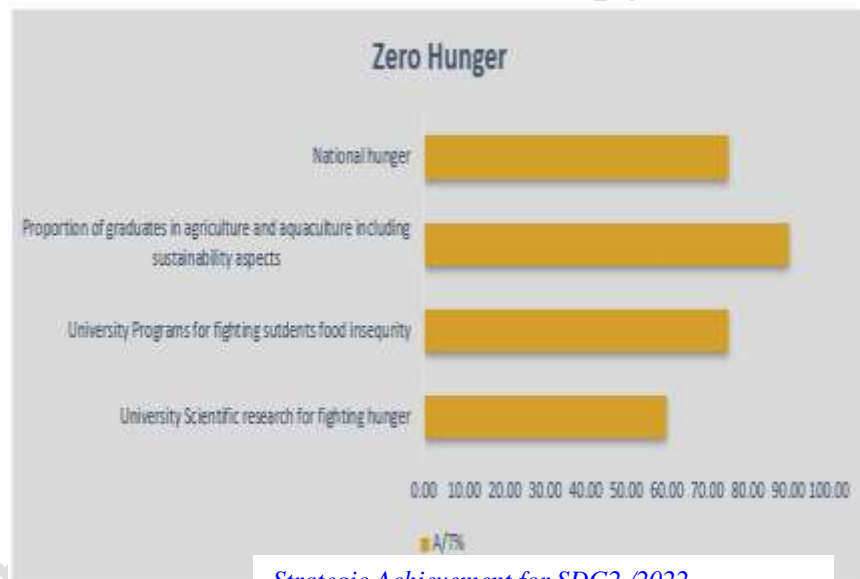


End Hunger, Achieve Food Security, and Promote Sustainable Agriculture:



(BAU) has dedicated itself to encouraging natural resources management through the implementation of many research projects related to food conservation, which is the way to assure satisfactory food supplies for future human generations, through academic programs and the provision of outstanding scientific research that supports the provision of integrated technical solutions to the national economy, BAU also seeks to provide a suitable educational environment to prepare agricultural qualified engineers for the local and regional labor market in accordance with the comprehensive quality standards for maintaining human and animal health, serving agricultural industries, and ensuring food safety, BAU has set many goals as follows:

1. Supporting university scientific research for fighting hunger.
2. Increasing university Programs for fighting food insecurity.
3. Contributing to the national food security.



[Strategic Achievement for SDG2 /2022](#)

PRACTICES

BAU is working to achieve the 2nd Sustainable development goal (Zero hunger) by development of productive farms stations that include various types of fruit trees, vegetables, livestock, such as (Princess Tasnim Station), then BAU sells farms' products to its population with affordable prices. The university also provides cafeterias and kiosks for selling food products at prices that are controlled



and monitored. In this regard, the university opened a main restaurant this year that Provide healthy and affordable food choices for all on campus.

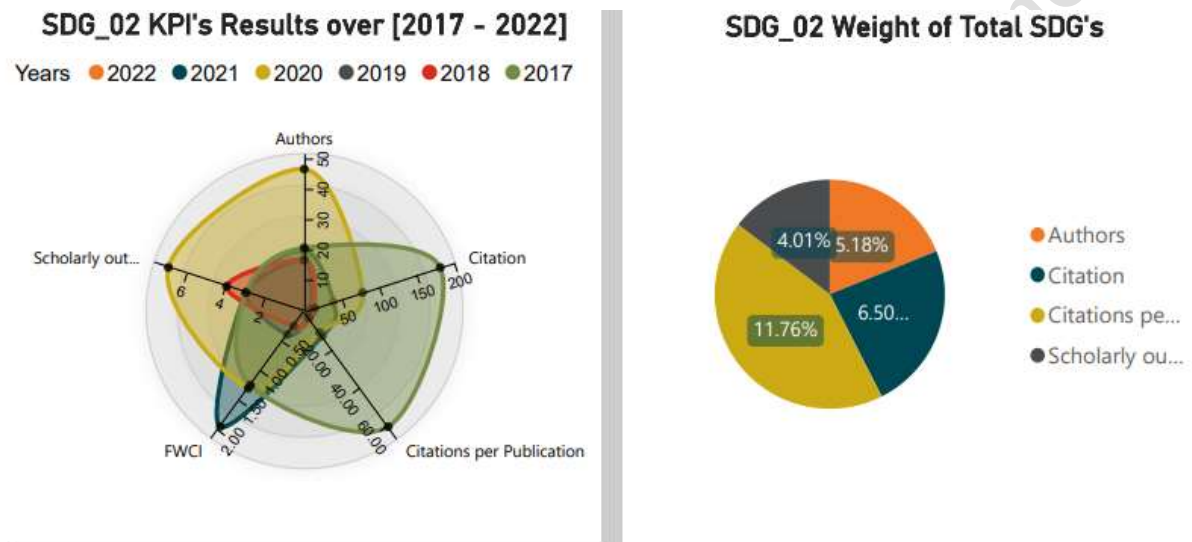
BAU constructed a smart agriculture unit by Faculty of Agricultural Technology to be a training center for students, alumni as well as local community in order to establish low-cost similar units in their home gardens and plant vegetables. This will indeed help to achieve, to some degree, extra family income and secure healthy food for the families.



<https://inwrdam.net/smart-agriculture-hub-at-bau/>

SCIENTIFIC RESEARCH SOLUTIONS

In addition of (Princess Tasnim Station) which allow implementation of local and international projects, transferring international experiences, best practices and research which related to achieving food and agricultural security, the university has large protected natural areas that reserve plants and animal's genetic assets, and has ecosystems contain medical plants, wild animals, and birds' shelters, which are monitored and protected from hunting, interference, aggression, and other types of human intervention.



[Publications at Al-Balqa Applied University within SDG 2: Zero Hunger | 2017 to 2022](#)

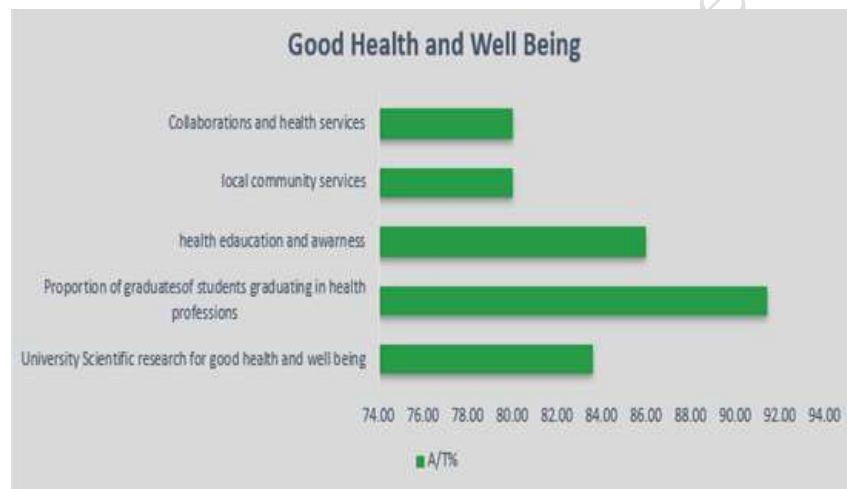
Ensure Healthy lives and Promote Well-Being for All at All Ages:



Al-Balqa Applied University continuously pays attention to implementing the Sustainable Development Goals, not least delivering Good Health and Well-being. To achieve this goal, BAU has collaborated with various health institutions to improve health and well-being outcomes, such as the agreements with the Ministry of Health that aims to restructure public health services and provide health care services for people in need, as well as providing health and wellbeing services.

BAU has set many sub goals related to promoting Well-Being and Ensuring Healthy lives in Jordan and these goals can be shortlisted as follow:

1. Supporting scientific research which related fields for good health and wellbeing.



[Strategic Achievement for SDG3 /2022](#)

2. Delivering health outreach educational programs and the local community health and wellbeing.

3. Delivering health outreach services and projects in the local community health and wellbeing.

4. Increasing the national and international collaborations in health and wellbeing field.

BAU is seeking to achieve 3rd sustainable development goal to improving the human health, by deliver health outreach programs and projects in the local community health and wellbeing, university's scientific research, provide areas and



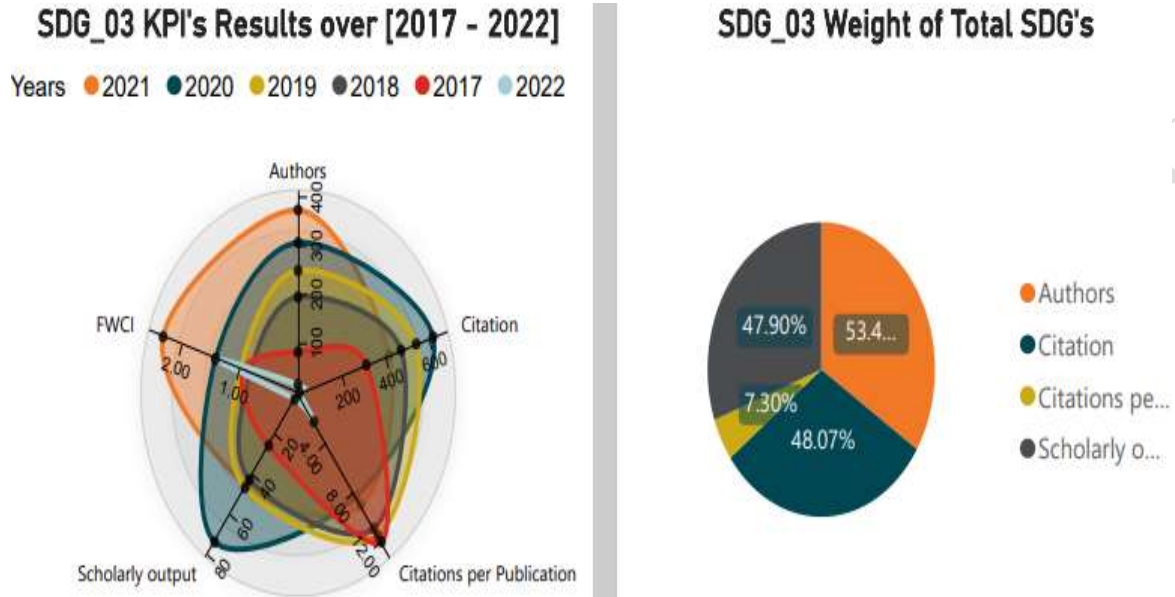
(BAU) is seeking to achieve 3rd sustainable development goal to improving the human health by paying a great attention to the health of its students and staff through a number of policies and services, such as raising awareness of important health issues, such as diabetes, breast cancer, drug abuse, etc. The university extends its services to the local community to improve health and well-being through



different strategies, including arranging blood donation campaigns, free medical days, visits to hospitals and schools by outreach committees, and providing sports training and students clubs. The university makes its sports facilities for all , additionally, the university arranges regular sports competitions for schools and other institutions and offers special sports training programs for different age groups.

SCIENTIFIC RESEARCH SOLUTIONS

BAU is committed to achieving UN-SDG3 (Good Health and Wellbeing), which is evident in a number of ways, including the fact that 1063 faculty staff members produce high-quality research on health issues



[Publications at Al-Balqa Applied University within SDG 3: Good Health and Well-being 2017 to 2022](#)

Ensure Inclusive and Quality Education for All and Promote Lifelong Learning:



BAU is seeking now to achieve 4th goal (quality education) by providing access to inclusive education, that raise the competencies, skills and abilities of those who want to learn regardless of gender, race or religion, to ensure achievement principles of learning for all and long life learning by providing flexible learning with various patterns and shapes and providing an appropriate educational environment that contributes to overcoming all obstacles that prevent them from the completion of their educational, such as housewives, people with disabilities, who live in remote rural areas, and workers who cannot enroll in traditional education programs, as well as providing open educational resources, such as educational platforms and global database that are consistent with the global education system and ensure obtaining accredited certificate and recognized internationally.

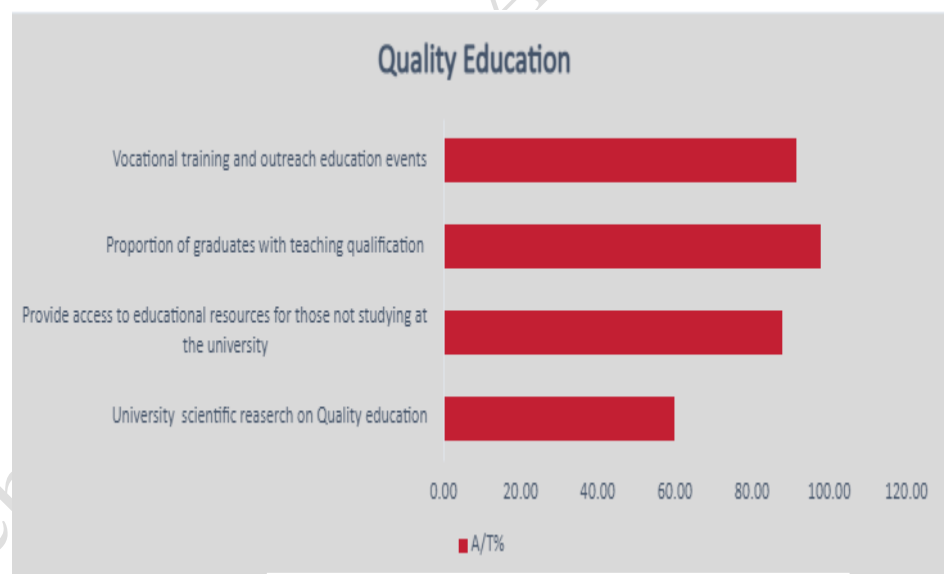
BAU has set many sub goals related SDG4 as follows:

1. Supporting scientific research on quality education.

2. Providing access to educational resources for those not studying at the university.

3. Contributing and participating in vocational training events.

4. Contribution and participation in education outreach events.



[Strategic Achievement for SDG4 /2022](#)

ACCESS TO GENERAL LECTURES AND EVENTS FOR PUBLIC

(BAU) offers education and training programs, public education facilities and resources, including a library, an electronic library, tutorial materials, and databases that are regularly and freely accessible to the public. BAU also offers certified training opportunities and educational resources for alumni, residents, and refugees. For instance, the training programs for smart agriculture, modern irrigation methods, free platforms, and wastewater treatment for farmers in the Jordan Valley.



[Training Workshop for local farmers](#)



[Vocational training courses in Smart-Agriculture](#)



[participants of the courses passing certificates](#)

HOST PUBLIC EVENTS

(BAU) is enhancing outreach by working directly with the communities by hosting and organizing events that are open to the public, such as conferences, ceremonies, seminars, lectures, training programs, awareness sessions, and other types of events.



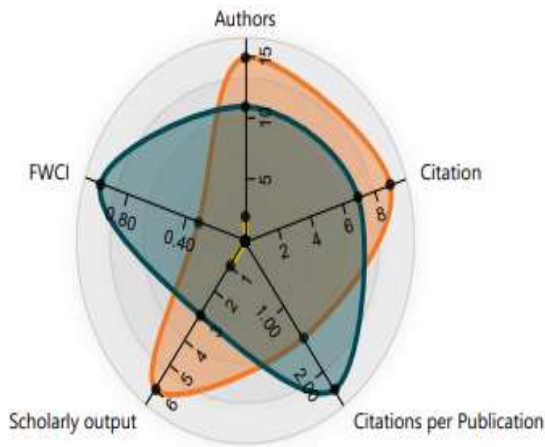
المؤتمر الدولي للكيمياء التطبيقية والتقنيات الحيوية
١٠ - ١٢ أيار ٢٠٢٢ | جامعة البلقاء التطبيقية - كلية العلوم | السلط - الأردن
International Conference on Applied Chemistry and Biotechnology
ICACB-2022
10 - 12 May 2022 | Al-Balqa Applied University - Faculty of Science | Al Salt - Jordan

[The 1st International Conference on Applied Chemistry and Biotechnology / Formation of research teams at the national, regional and international levels](#)

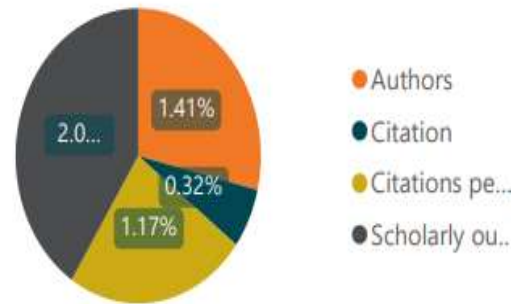
SCIENTIFIC RESEARCH

SDG_04 KPI's Results over [2017 - 2022]

Years ● 2020 ● 2021 ● 2019 ● 2017 ● 2018 ● 2022



SDG_04 Weight of Total SDG's



[Publications at Al-Balqa Applied University within SDG 4: Quality Education](#)

Development and Qua

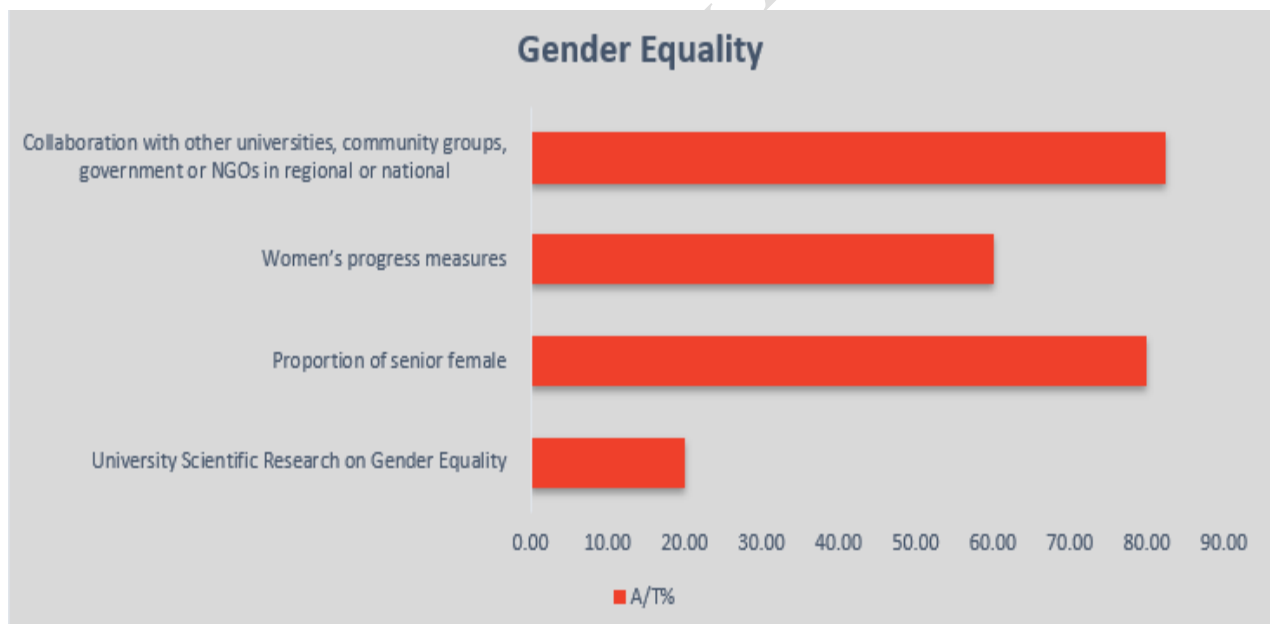
Achieve Gender Equality and Employment All Women and Girls:



Ending all discrimination against women is not only a basic human right, but also crucial for sustainable future; it's proven that empowering women and girls helps economic growth and development. But although there are more women than ever in the labor market, there are still large inequalities in some regions, with women systematically denied the same work rights as men.

BAU has set many sub goals to achieve gender equality in BAU and Jordan, these goals can be shortlisted as follow:

1. Supporting scientific research on gender equality and employment.
2. Tracking access measure for women at BAU.
3. Encourage application by women in subject where they are underrepresented.
4. Increasing collaboration with other universities, community groups, government, or NGOs at regional or national level.



[Strategic Achievement for SDG5 /2022](#)

COMMITMENT

(BAU) is committed to [empowering women](#), developing their potentials, obtaining their rights, facilitating their access to available opportunities and resources, and involving them in decision-making processes at the university, by improving their lives conditions, and overcoming obstacles and challenges that they may face, providing them appropriate training and rehabilitation opportunities, necessary career guidance, counseling, and scholarship opportunities in prestigious international universities, and ensuring obtaining equal opportunities in the various fields of work such as recruitment, employment, appointment and promotion, as well as the opportunity to assume leadership positions, increase their representation in the governance councils at the university, and enhance their ability to influence society and its economic and social orientations.



Dean of the Faculty of Agriculture Technology

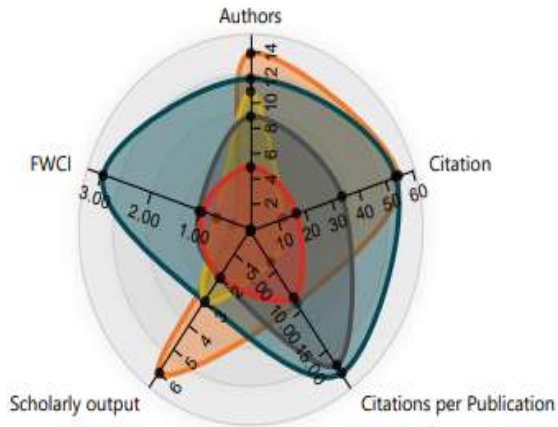
(BAU) also is committed a [non-discrimination against women](#) in all its forms, both intended and unintended. (BAU) applies laws and legislations that preserve women's rights as stipulated in the constitution and laws of the Hashemite Kingdom of Jordan that prohibit any discrimination against women and it imposes deterrent penalties against those who violate them, so the university approving regulations and instructions consistent agreed with that and ensure that they obtain equal opportunities in the various fields of work.

The University offers a year-long program that provides opportunities for women to develop personal leadership skills. Specific objectives include increasing the numbers of women in senior positions, enhancing opportunities for women to be recruited and retained in under-represented areas, fostering formal and informal learning as well as mentoring and career development for women.

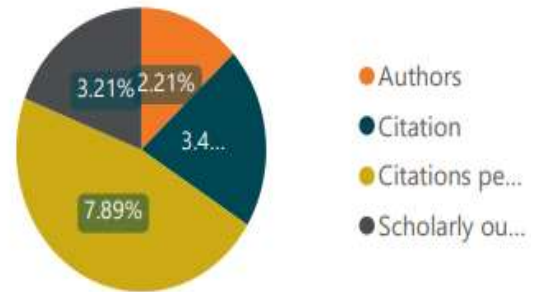
SCIENTIFIC RESEARCH

SDG_06 KPI's Results over [2017 - 2022]

Years ● 2019 ● 2021 ● 2020 ● 2017 ● 2018 ● 2022



SDG_06 Weight of Total SDG's



[Publications at Al-Balqa Applied University within SDG 5: Gender Equality](#)

Ensure Availability and Sustainable Management of Water and Sanitation for All:

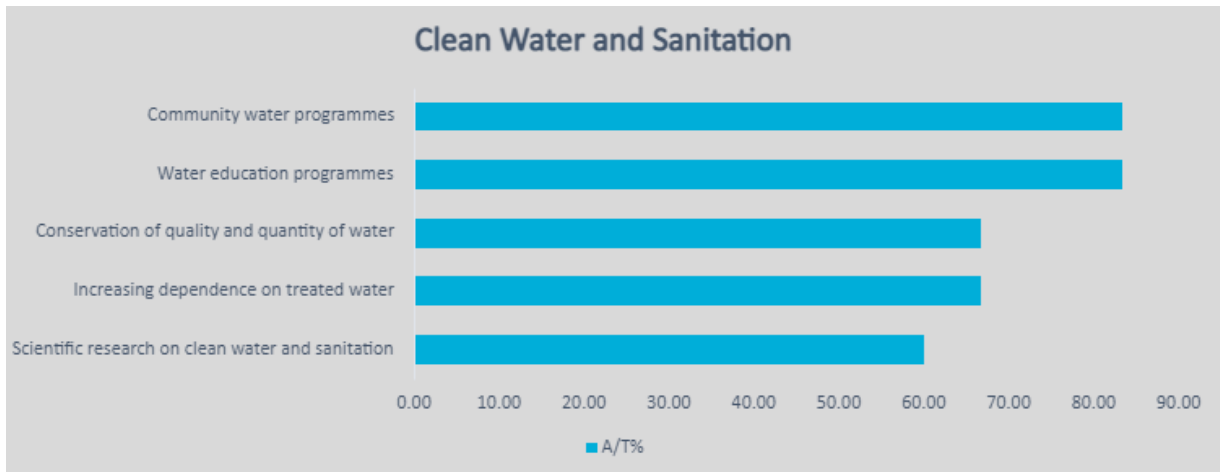


Water is imperative for the sustainability of life, the environment, and the economy, and therefore it is critical that decisions on water are based on reliable and objective information. On other hand climate change, increasing population and urbanization are posing significant challenges across the entire world where in some places and countries deaths in children fewer than five years are attributable to water-related causes.



BAU has set many sub goals to achieve Sustainable management of water and sanitation at BAU and Jordan, these goals can be shortlisted as follow:

1. Supporting and encouraging scientific research on clean water and sanitation.
2. Increasing dependence on treated water for different purposes.
3. Increasing conservation of quality and quantity of water.
4. Increasing Water education programs.
5. Increasing Community water programs.



Strategic Achievement for SDG6 /2022

WATER RE-USE MEASUREMENT

The university realizes the importance of wastewater treatment and keeps track of the quantities of water that are treated at its treatment plants, for example, in Wastewater Treatment Facility, Therefore, the university calculates the quantities of water produced from the treatment processes for the purposes of development, improvement and increase of the amounts of treated water annually. Al-Balqa Applied University treats wastewater through several treatment stations affiliated with it. The most prominent of which is the decentralized model facility in Fuheis ([SMART](#)).



WATER IN THE COMMUNITY

(BAU) is aware of the necessity for skillful water engineers with outstanding competences especially with accelerated technology advancement especially with the traditional techniques in water collection and treatment, operational skills, irrigation, and water conservation measures, so BAU updated core curriculum in water, for example, peer-to-peer curricula development of drinking water treatment, wastewater treatment, and hydrology with experts



from IHE-Delft in The Netherlands is currently going on as part of a collaboration project namely [WATRA](#). Further, several awareness campaigns are carried out every year to include women associations, farmers, schools' students, and decision makers, Also Capacity development activities to update and elevate the knowledge of over 72 operators from the private sector to match the new technologies are performed this year as part of [WATRA](#) Project.

RESEARCH AND INTERNATIONAL COLLABORATION

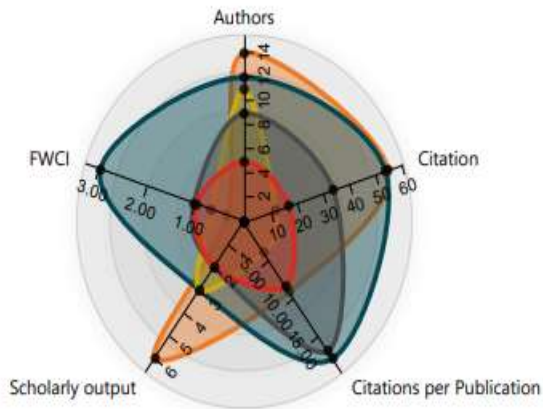
Water security is among the top national priorities. Hence, it is becoming the core of all state universities. However, contributing to water security varies from one university to another. Al-Balqa Applied University is highly committed to ensuring water security and it took serious steps toward achieving it. For example, BAU cooperated with UNESCO through the MDGs back in 2009 to establish the [International Research Center for Water, Environment and Energy](#) (IRCWEE) in the university. Since then, cooperation at national and international levels has increased significantly.

(BAU) implemented a great number of international and national funded water projects with the direct or indirect goal of achieving water security ranging from small contributions to policy development to actual interventions on the ground. Lately, (BAU) has many international cooperatives and over 14 completed and on-going water related projects. It is becoming a hub for water scientist in Jordan and the Middle East.

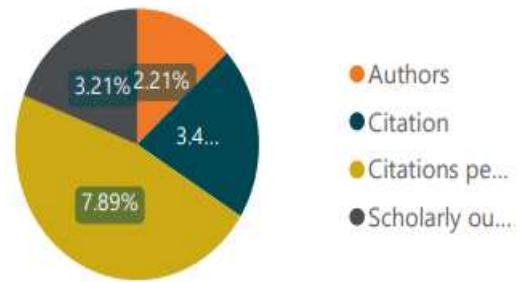


SDG_06 KPI's Results over [2017 - 2022]

Years 2019 2021 2020 2017 2018 2022



SDG_06 Weight of Total SDG's



[Publications at Al-Balqa Applied University within SDG 7: Clean Water and Sanitation 2017 to 2022](#)

Development and Quality Assurance

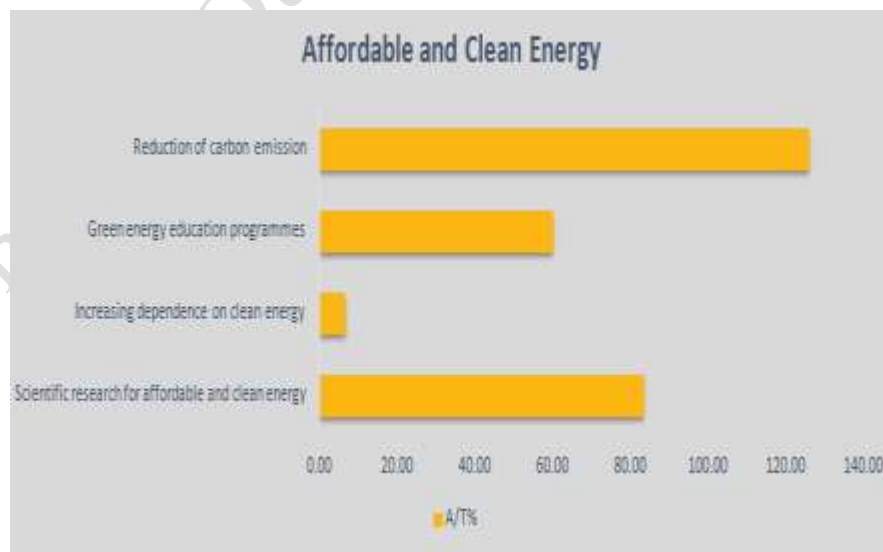
Ensure Access to Ensure Access to Affordable, Reliable,
Sustainable and Modern Energy:



(BAU) is one of the largest state universities in Jordan, with campuses spread throughout the country, covering nearly all climatic regions from the highlands in the mid-west to the very dry, this diversity in climatic conditions, motivated BAU to adopt wide range of activities related to climate change, so it is seeking to achieve UN SDG7th goal (Affordable and Clean Energy) through multi energy-saving policies to reduce its power consumption and converting to renewable energy resources.

With the adoption of a clean energy strategy and a zero-emission policy through a number of initiatives, programs, and projects, BAU aims to significantly reduce its carbon footprint and gas emissions, BAU has set many goals to ensure access to affordable, reliable, and sustainable energy at BAU and Jordan, these goals can be shortlisted as follow:

- 1.supporting and encouraging scientific research on competitive low carbon energy.
- 2.Increasing dependence on clean energy.
3. Increasing Green energy education programs
- 4.Reduction of carbon emission



[Strategic Achievement for SDG7 /2022](#)

INCREASING DEPENDENCE ON CLEAN ENERGY

(BAU) has built its policy for Energy-efficient renovation and building which shows its obligations toward moving to Green Buildings. This is clear though the new buildings constructed recently that have many characteristics which provide natural lighting through the glass domes centralized at the building, also the architectural style used a high number of double glass windows that allow natural day-lighting and promotes natural ventilation in university buildings.



Solar tracking systems



Metal cladding systems

(BAU) is Promoting energy conservation and efficiency through shifting to Smart Buildings and multi energy-saving policies to reduce its power consumption by: Solar tracking system, Metal cladding systems, using stone in buildings for energy conservation, replacing ordinary light bulbs with led lamps, Installing special efficient transparent solar panels for power generation and producing required hot water for different uses through the solar heaters, using energy-saving air-conditioning units (A/C with inverter and environment friendly refrigerant).

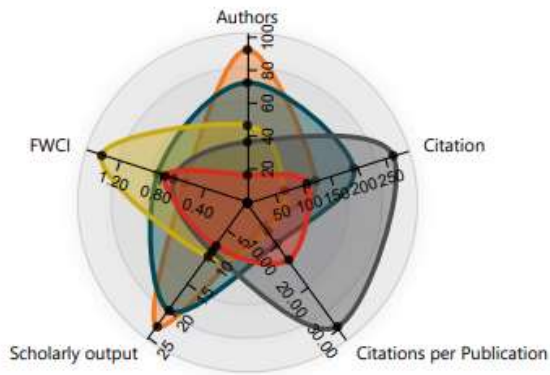
(BAU) also is Shifting towards fully renewable and sustainable energy, and it soon finish the construction of the new solar park project with capacity 7M.



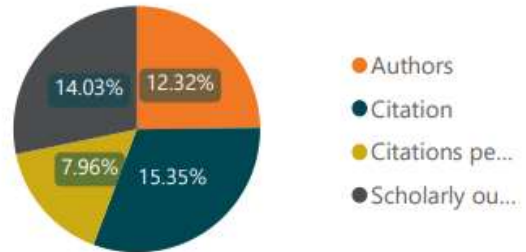
CEINTIFC RESEARCH

SDG_07 KPI's Results over [2017 - 2022]

Years ● 2020 ● 2019 ● 2021 ● 2017 ● 2018 ● 2022



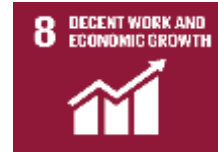
SDG_07 Weight of Total SDG's



[Publications at Al-Balqa Applied University within SDG7: Affordable and Clean Energy 2017 to 2022](#)

Development and Quality Assurance

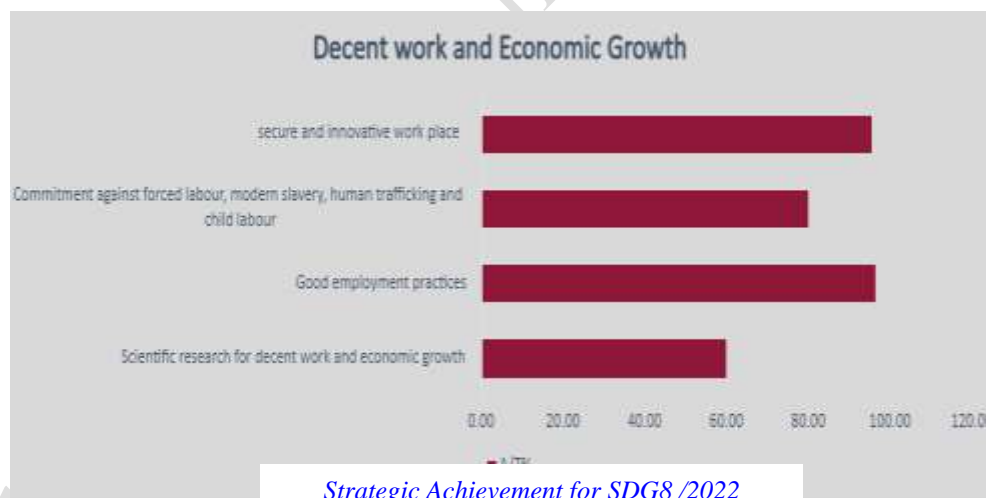
Promote Sustained, Inclusive and Sustainable Economic Growth, Full and Productive Employment and Decent Work for All:



The sustainable developmental goals aim to promote sustained economic growth, higher levels of productivity and technological innovation. Encouraging entrepreneurship and job creation are key to this, as are effective measures to eradicate forced labor, slavery, and human trafficking. With these targets in mind, the goal is to achieve full and productive employment, and decent work, for all by 2030. 8th UN SDG calls for "sustained, inclusive and sustainable economic growth, full and productive employment, and decent work for everyone," and BAU adopts this goal.

BAU has set many goals to ensure decent work for all and promote sustained economic growth at BAU and Jordan as follow:

1. Supporting scientific for decent work and economic growth.
2. Application of good employment practices.
3. Commitment against forces labor, modern slavery, human trafficking, and child labor.
4. Providing a secure and innovative workplace.



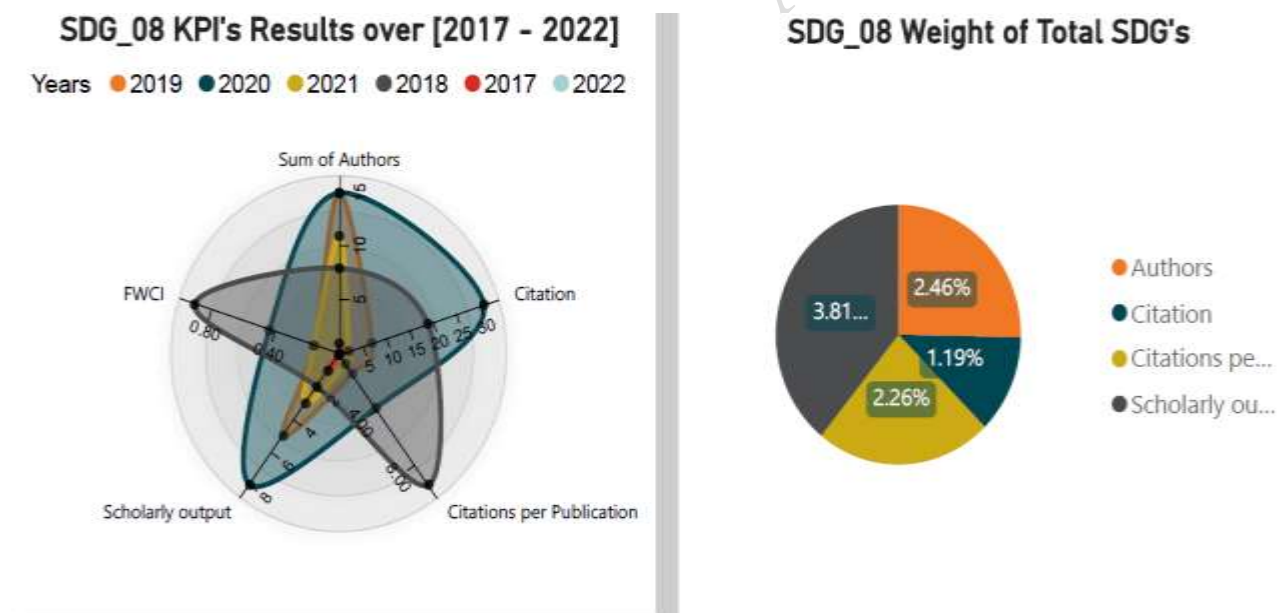
BAU plays significant roles in business structure and job creation in Jordan with a focus on commercializing the research outputs, in line with the launch of Jordan's economic modernization vision under the slogan of "A Better Future," which is based on accelerated growth through unleashing Jordan's full economic potential, improved quality of life for all citizens, and sustainability.

EMPLOYMENT PRACTICES

The BAUs' employees fall in two categories: academic and non-administrative staff work to provide quality teaching and learning and its support services in alignment with its mission, so BAU has developed a healthy and competitive working environment attracting and retaining local and international qualified professionals, providing them opportunities to excel in their fields, and at the same time protecting their rights and interests.

(BAU) works under Jordanian Constitution instructions, which control human rights and Duties. Therefore, it complies with the requirements of establishing the minimum wage for employees. Additionally, (BAU) has created a salary scale that divides pay according to management level and grade in order to increase transparency and protect employees' rights.

SCIENTIFIC RESEARCH



[Publications at Al-Balqa Applied University within SDG8: Economic growth and Decent Work 2017 to 2022](#)

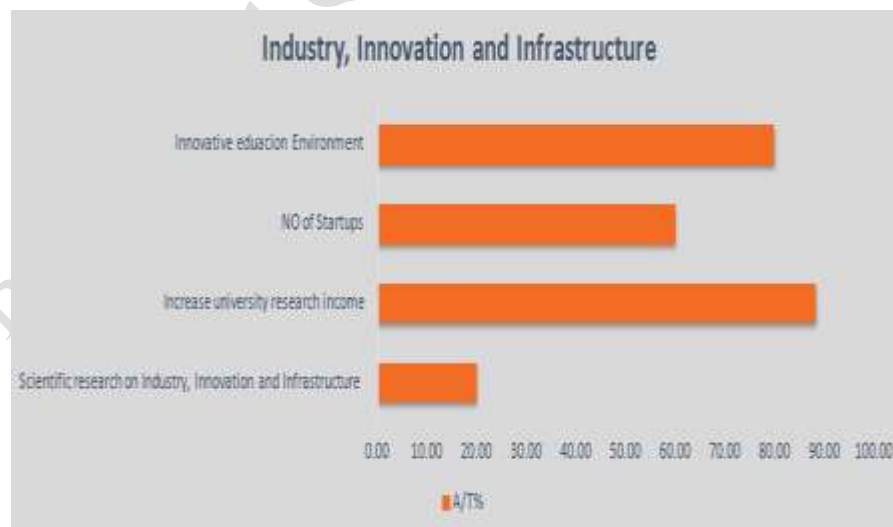
Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation:



With the increasing of world population who live in cities, mass transport and renewable energy are becoming ever more important, as the growth of new industries and information and communication technologies, the countries works to increase the investment in infrastructure and innovation as crucial drivers of economic growth and development, also countries work to find lasting solutions to both economic and environmental challenges, such as providing new jobs and promoting energy efficiency, and promoting sustainable industries, and investing in scientific research and innovation.

In Jordan's recent Economic Modernization Vision, which includes a number of initiatives to foster greater cooperation with the private sector, BAU established the following objectives to ensure the development of resilient infrastructure, the promotion of sustainable industrialization, and the encouragement of innovation.

1. Supporting and sustaining scientific research on resilient infrastructure, sustainable industrialization, and foster innovation.
2. Increasing university research income.
3. Increasing the number of startups.
4. Providing an Innovative educational Environment.



[Strategic Achievement for SDG9 /2022](#)

PRACTICES

The University participates in numerous partnerships to provide a suitable and innovative environment to support students, faculty, researchers, and the local community in order to support them in keeping up with the challenges of this era with its knowledge tools and modern technology means that support innovative and pioneering thought, scientific research, as well as encourage them to establish and implement private entrepreneurial projects.

(BAU) has established the Center for Innovation and Entrepreneurship which offers a wide range of entrepreneurship, innovation and commercialization programs that support BAU students and staff to grow their entrepreneurial minds and abilities. The Center for Innovation and Entrepreneurship has a major and crucial role in the significant growth in student participation in entrepreneurship programs.

In addition of that, (BAU) connects governments and industry with leading BAU researchers to develop actual, operative, and successful solutions that address real-world challenges through its programs, in order to help companies in the field of innovation and creation of new services and products in response to the demands of the markets and sustainable industrialization needs.



[The Biotechnology and Entrepreneurship Youth Camps](#)

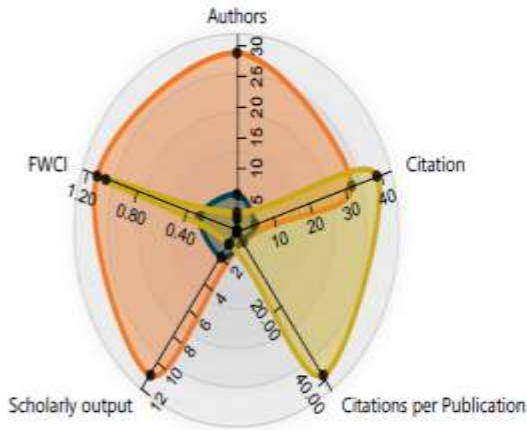


[The First National Robotics Championship](#)

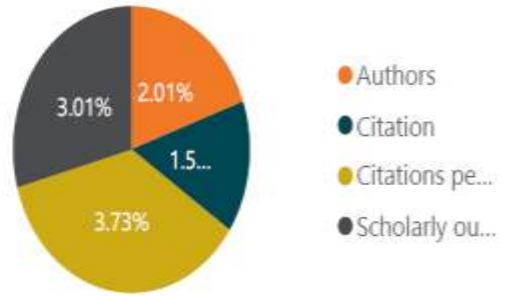
SCIENTIFIC RESEARCH

SDG_09 KPI's Results over [2017 - 2022]

Years ● 2020 ● 2019 ● 2017 ● 2021 ● 2018 ● 2022



SDG_09 Weight of Total SDG's



[Publications at Al-Balqa Applied University within SDG 9: Industry, Innovation, and Infrastructure \(2020\) | 2017 to 2022](#)

Development and Quality

Reduce Inequality Within and Among Countries:



As the progress in the development of communities and economies, 10th SDG works to leave no one behind.

As the number of refugees in Jordan rises, BAU is committed to giving refugee students the same chances as other students. To assist and include these students, BAU has put in place policies, procedures, and guidelines. Additionally, BAU opposes discrimination against women by providing equal opportunities and treatment in work and education. As a result, BAU has established the following objectives as part of its commitment to decreasing inequality both within and between nations:

1. Increasing scientific research regarding reduced inequalities.
2. Supporting underrepresented groups.
3. Achieve a university environment free of discrimination at all levels.



[Strategic Achievement for SDG10 /2022](#)

APPROACH

The university seeks to eliminate any discrimination, it is also keen to ensure a sustainable safety and healthy environment by creating a stimulating environment for students and workers that allow everyone to develop and excel, by implementation public safety and security policy, and application of the best security and safety practices to preserve the safety of property and individuals in order to enable staff to perform their tasks, responsibilities efficiently and competently, also to contribute to the achievement the university's mission and strategic objectives.

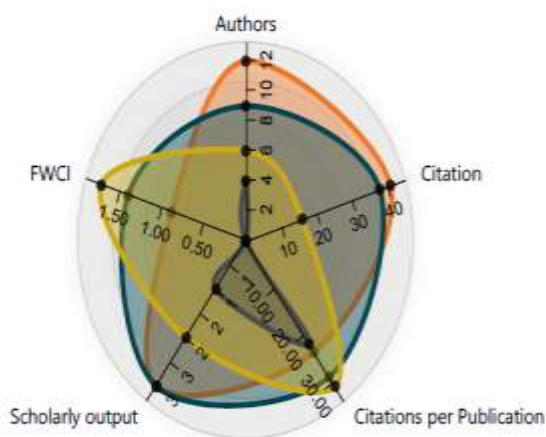


moreover, BAU has legislation and instructions, dealing with report any discrimination case, providing a safe, supportive, and non-discriminatory learning environment and workplace, ensuring equal opportunities for everyone in the fields of work, various educational opportunities, and many other actions, in this respect BAU Provides facilities for disabled, special needs and maternity care.

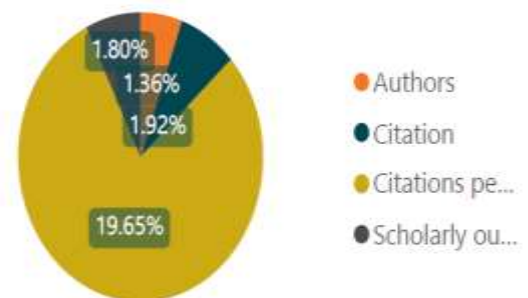
SCIENTIFIC RESEARCH

SDG_10 KPI's Results over [2017 - 2022]

Years ● 2018 ● 2020 ● 2021 ● 2019 ● 2017 ● 2022



SDG_10 Weight of Total SDG's



[Publications at Al-Balqa Applied University within SDG 10: Reduced Inequality 2017 to 2022](#)

Make Cities and Human Settlements Inclusive, Safe, Resilient and Sustainable:

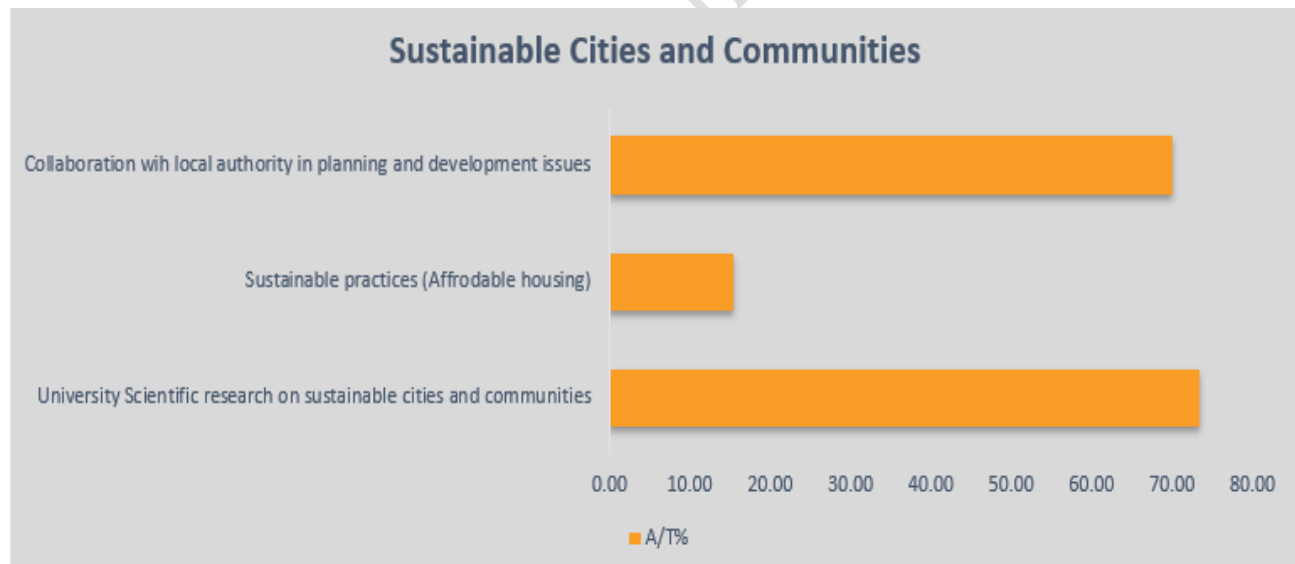


Al-Balqa Applied University commitment to the global blueprints designed to deliver progress, peace and prosperity for people and the planet, including preserving and sustaining the heritage of communities. especially with the main campus's location in Al-Salt city.

Consequently, BAU is moving to green buildings. This is clear through the new buildings constructed recently that have many characteristics which provide natural lighting through the glass domes centralized at the building and LED lighting, also the architectural style used a high number of double glass windows that allow natural daylighting and promotes natural ventilation in university buildings.

BAU goals to make Cities and Human Settlements Inclusive, Safe, Resilient and Sustainable can be shortlisted as follow:

- 1.Supporting scientific research on sustainable cities and communities.
- 2.Provide Sustainable practices (Affordable Housing).
3. Collaboration with local authority in planning and development issues



[Strategic Achievement for SDG11 /2022](#)

IMPLEMENTATION

(BAU) is committed to follow the guidelines of the ministry of public works and housing, regarding the implementation of green buildings metrics, which built in such manner that reduces the need for artificial conditioning (presence of extended concrete surfaces which make shadows over parts of the building), so (BAU) also renovated many buildings, the renovation includes natural ventilation, LED lighting, Water savings faucets, Smart building (automatic door & fingerprint), and metal cladding



BAU also signed a cooperation agreement with the Jordanian Green Building Council, with the aim of transferring best practices in the maintenance and restoration of existing university buildings and the construction of new buildings.

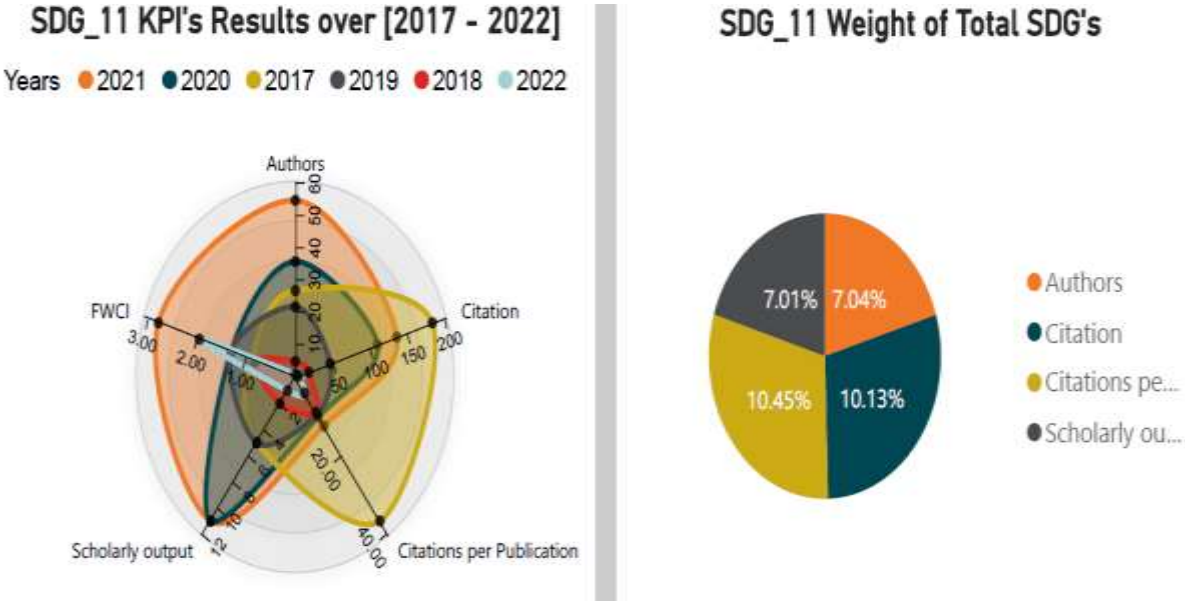
BAU restoration of Jordan’s oldest mosque (Al-Husseini) is a true example of art heritage serving the community, it completed the restoration of the mosque’s interior in a record 54 days during an unprecedented world pandemic. The mosque holds unique significance to Jordan’s history, culture, and spiritual identity. The project consumed 5620 work hours and showcases great craftsmanship. A joint team of artisans, academics, historians, and vocational and technical students collaborated to restore the mosque’s interior. Artisans utilized traditional joinery, Arabesque, mosaic and wood carving techniques. They lined the mosque’s facades with hand-carved



wood panels, reconstructed and decorated the minbar with over 3000 hand-crafted wooden pieces, and adorned the mosque’s columns with handmade Zellig tiles. BAU’s artistic restoration of Al-Husseini Mosque affirms art’s role in unifying the historic, the national and spiritual identity of the Jordanian community, and confirms BAU’s skills and expertise in a rare art form achieving access to safe, affordable, accessible, and sustainable transportation systems for all while

enhancing road safety and paying particular attention to the requirements of people with disabilities is the goal of sustainable cities and communities.

SCIENTIFIC RESEARCH



[Publications at Al-Balqa Applied University within SDG 11: Sustainable Cities and Communities 2017 to 2022](#)

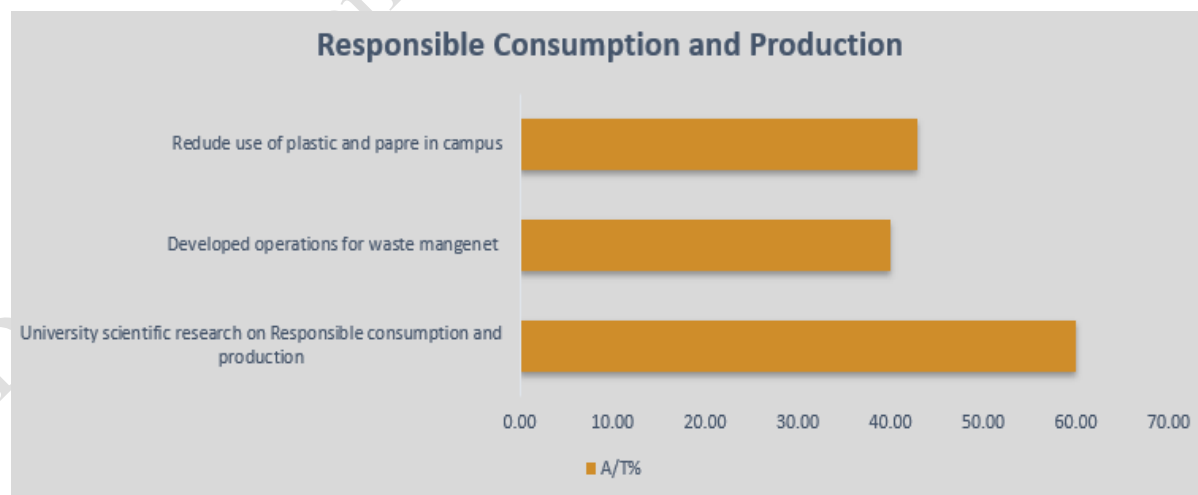
Ensure Sustainable Consumption and Production Patterns:

Achieving economic growth and sustainable development requires that we urgently reduce our ecological footprint by changing the way we produce and consume goods and resources, it's worth mentioning that the Sustainable Consumption and Production is about promoting resource and energy efficiency, sustainable infrastructure, and providing access to basic services, green and decent jobs, and a better quality of life for all. and Its implementation helps to achieve overall development plans, reduce future economic, environmental, and social costs, strengthen economic competitiveness, and reduce poverty.

Jordan has recently experienced tremendous demographic, agricultural, and industrial growth, creating difficulties for waste management of many forms. In order to minimize the negative environmental effects of waste, BAU established a waste management protocol delivered by regulatory legislation and responsibilities with the goal of reducing waste to landfill, with a focus on utilizing the 4R's (Reduce, Reuse, Recycle and Recovery).

The efficient management of our shared natural resources, and the way we dispose of toxic waste and pollutants, are important targets to achieve this goal. Encouraging industries, businesses, and consumers to recycle and reduce waste is equally important, as is supporting developing countries to move towards more sustainable patterns of consumption by 2030, so BAU set its goals toward Ensuring Sustainable

1. University scientific research on Responsible consumption and production.
2. Developing operations for waste management.
3. Reducing the use of plastic and paper on campus.



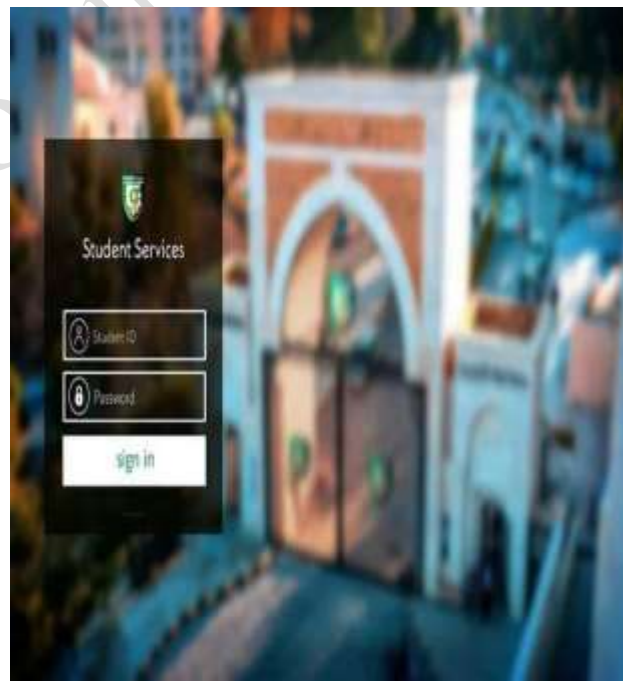
[Strategic Achievement for SDG12 /2022](#)

IMPLEMENTATION

Regarding energy consumption, all BAU developments have sustainable design and building principles, the library and faculty of Prince Abdullah Ben Ghazi are excellent examples of sustainable design. The high-tech façade design with double glazing and sophisticated energy-efficient heating and cooling systems minimizes heating and cooling requirements and comprehensive metering tracks and corrects inefficient use of energy and water.

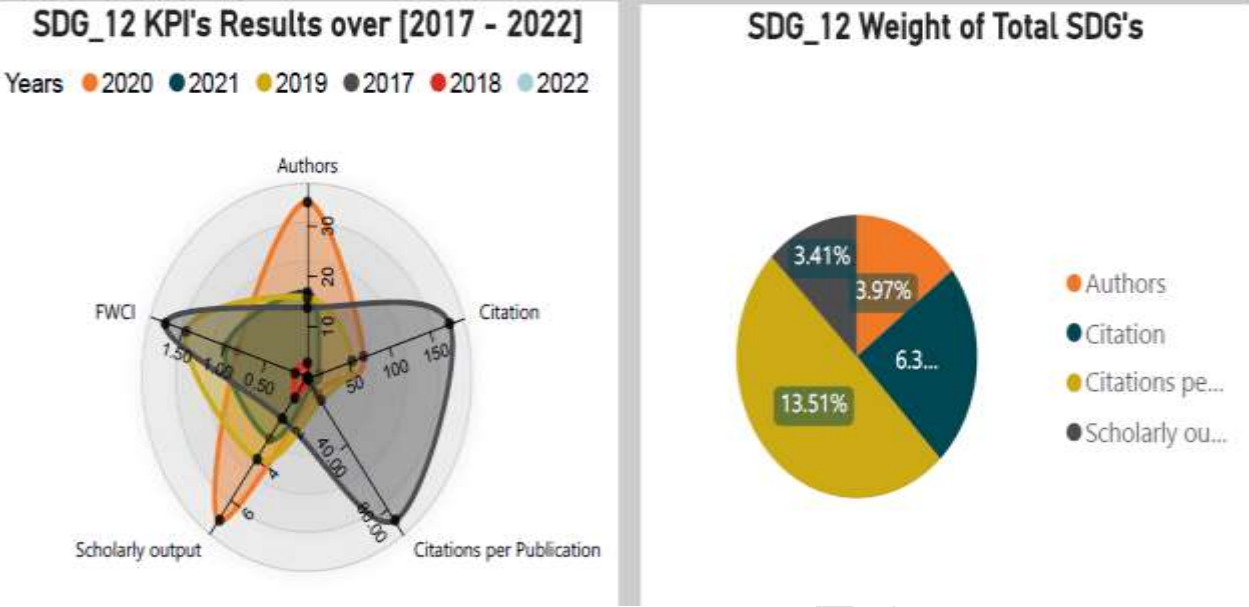
BAU is working to reduce the waste generation on campus including several types of waste such as paper, cardboard, and plastics through reducing the use and consumption of such waste. To reduce greenhouse gas emissions and lower landfilling rates that helps to extend the life span of landfill and reduce accompanied waste impacts such as air, soil and water pollution, through the following short- and long-term policies. This includes the following:

1. Electronic Correspondence (activating e-mail and electronic correspondence system), paperless university.
2. E-learning system and electronic tests.
3. Instead of using paper cups or bottled water.



Go Paperless

SCIENTIFIC RESEARCH



[Publications at Al-Balqa Applied University within SDG 12: Responsible Consumption and Production 2017 to 2022](#)

Development and Quality

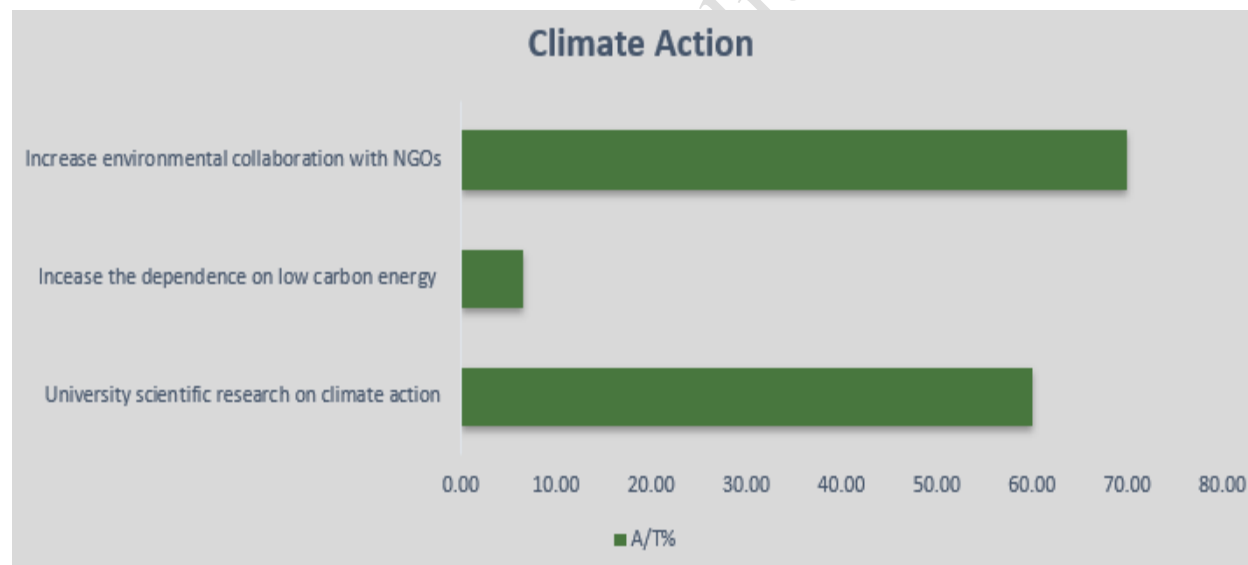
Take Urgent Action to Combat Climate Change and Its Impacts:



Al-Balqa Applied University provides services through its distributed campuses in Jordan, covering nearly all climatic regions. This diversity in climatic conditions motivated (BAU) to adopt a wide range of activities related to climate variability and change, with the focus on climate adaptation. For example, (BAU) is an innovative university in terms of water and draught research, capacity development, and pioneer technology transfer initiatives ranging from solar energy to wastewater treatment for reuse, to smart agriculture. Moreover, (BAU) established academic technical programs with the focus on smart agriculture, water treatment, smart buildings, electric and hybrid cars, not to mention the various awareness activities in climate change. Another clear example of the serious role (BAU) plays in the region is demonstrated by hosting the 76th United Nations Days in 2021 with the focus on climate change.

BAU goals toward taking Urgent Action to Combat Climate Change and these goals can be shortlisted as follows:

1. Supporting university scientific research on climate change
2. Increasing dependence on low carbon energy
3. Increasing environmental collaboration with nongovernmental and governmental organizations.



[Strategic Achievement for SDG13 /2022](#)

EDUCATION AND OUTREACH

BAU is building environmental and climate literacy for all students to prepare them for tomorrow to further understand climate change impacts, mitigation measures, and adaptation. Several academic programs at undergraduate, and post graduate levels started to incorporate climate variability and change concepts and applications. For example, civil engineering program, water resources management program, water treatment engineering program, smart buildings program, renewable energy technologies program, water resources and environmental management program and disaster management program. This incorporation is evident in the curricula in the concerned programs. Moreover, several research labs and research groups are focusing on renewable energy in terms of technology as well as management tools to alleviate greenhouse gases emissions.

In addition to that, at least one major course (Environment and Society) is compulsory course for all students at the university to provide them with basic knowledge and ensure minimum awareness level.



*BAU's students at Koblenz University
"The Resilience of Cities and the Challenges of
Climate Change" project*



*Seminar on climate change and its impact
on water problem in Jordan*

PRACTICES

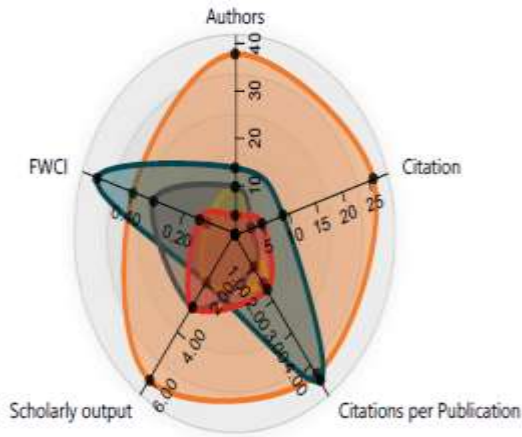
BAU is fighting against climate change issues, by reducing carbon footprint and reduce gas emissions, so it has a many procedures and practices such as applying green buildings elements and smart buildings requirements, progressive transition to renewable energy, organic composting, planting more drought tolerant plants, applying cloud computing applications, signing national and international agreements.



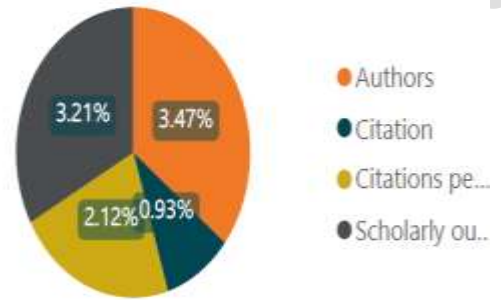
Planting more trees

SCIENTIFIC RESEARCH

SDG_13 KPI's Results over [2017 - 2022]
 Years ● 2020 ● 2019 ● 2017 ● 2021 ● 2018 ● 2022



SDG_13 Weight of Total SDG's



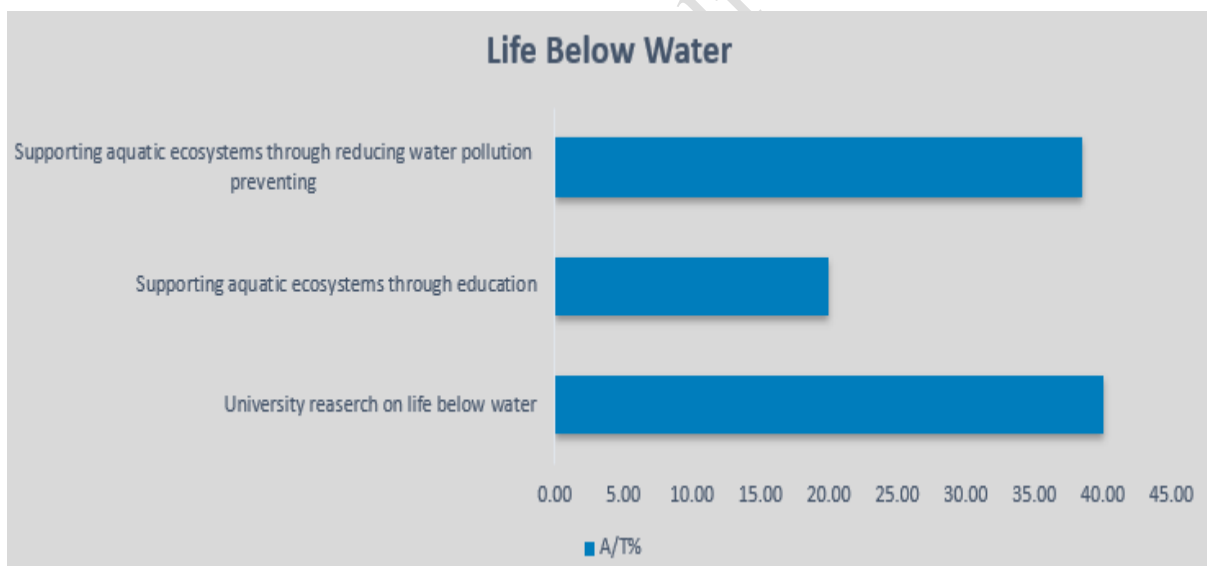
[Publications at Al-Balqa Applied University within SDG 13: Climate Action 2017 to 2022](#)

Conserve and Sustainably Use the Oceans, Sea and Marine Resources for Sustainable Development:



Many nations depend on marine and coastal biodiversity for their livelihoods. However, today we are seeing 30 percent of the world's fish stocks overexploited, reaching below the level at which they can produce sustainable yields. Oceans also absorb about 30 percent of the carbon dioxide produced by humans, and we are seeing a 26 percent rise in ocean acidification since the beginning of the industrial revolution. Marine pollution, an overwhelming majority of which comes from land-based sources, is reaching alarming levels, with an average of 13,000 pieces of plastic litter to be found on every square kilometer of ocean.

With a growing global population expected to reach 9.1 billion in 2050 and the increasing impacts of climate change, sustainable use of water and ecosystems for food security is a great challenge. It is important to gain a better understanding of the functioning of terrestrial and aquatic ecosystems and their interrelation with the availability and quality of water. Climate change impacts on ecosystems and thereby on water and food security are highly uncertain, and most forecasting scenarios suggest greater vulnerability to damage, reduced ecosystem services, and undermined resilience.



[Strategic Achievement for SDG14 /2022](#)

PRACTICES

BAU has adopted its own policy for Food from Aquatic Ecosystems which has the objective to provide food at university without compromising the ability of the future generations to meet their needs. Also, it aims to save biodiversity which will help in maintaining marine sustainability, so BAU has set goals to show its commitment toward Conserving and Sustainably Use the Oceans, Sea and Marine Resources for Sustainable Development and these goals can be shortlisted as follow:

- 1.Supporting scientific research in the fields of life below water
2. Supporting aquatic ecosystems through education
3. Supporting aquatic ecosystems through reducing water pollution prevention.

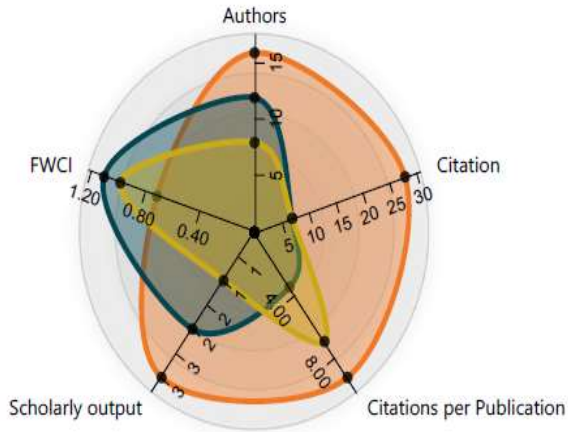


[Jordan Volunteer Work Camps](#)

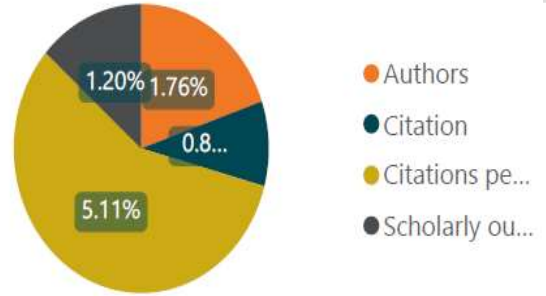
SCIENTIFIC RESEARCH

SDG_14 KPI's Results over [2017 - 2022]

Years 2019 2021 2020 2017 2018 2022



SDG_14 Weight of Total SDG's



[Publications at Al-Balqa Applied University within SDG 14: Life Below Water \(2017\)](#)

Development and Quality

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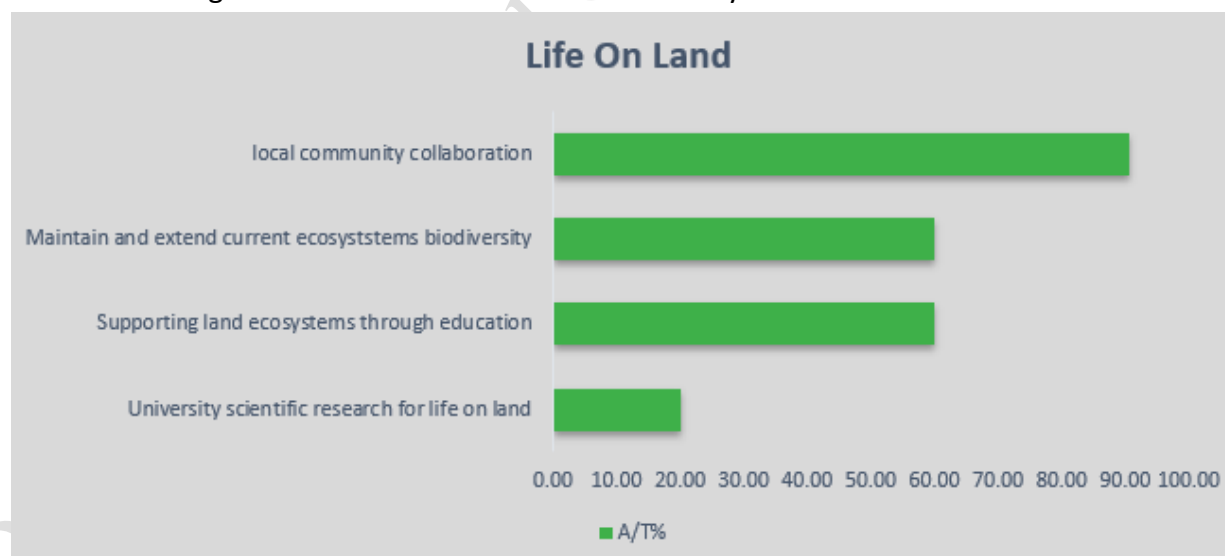
Protect, restore, and promote sustainable use of terrestrial ecosystems:



The university seeks to achieve the 15th goal (life on land) by orienting the scientific research, development of education programs, and responsible management of resources with the aim of preserving and restoring terrestrial ecosystems; preventing clearing forests, and working to restore degraded forests; as well as combating desertification and restoring degraded lands; ensuring the conservation of ecosystems and the protection of biodiversity and natural diversity, protecting access to genetic resources and the equitable sharing of their benefits; stopping poaching and trafficking in protected species, preventing the introduction of invasive alien species into ecosystems, and incorporating the values of ecosystems and biodiversity into government planning.

BAU has set many goals to show its commitment toward Protect, restore, and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss and these goals can be shortlisted as follow:

1. University scientific research for life on land.
2. Supporting land ecosystems through education.
3. Maintenance and extension of the current ecosystem's biodiversity.
4. Increasing collaboration with the local community.



[Strategic Achievement for SDG14](#)

EDUCATION AND RESEARCH STATIONS

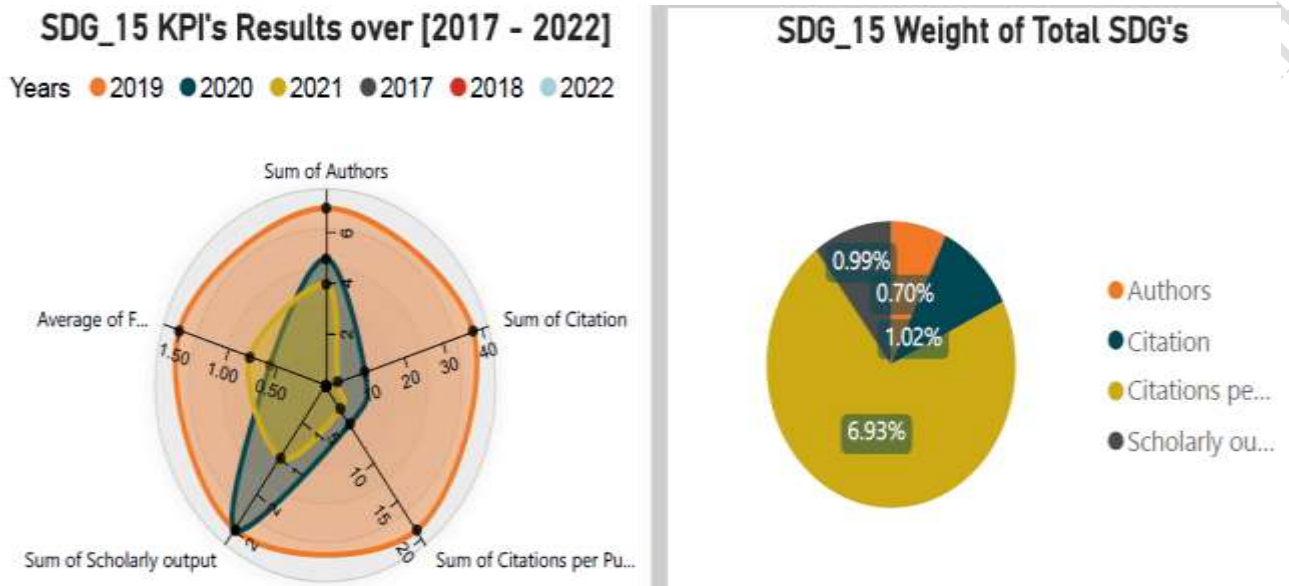
The university has many research and education stations in addition of productive farms that include various types of fruit trees, vegetables, livestock, such as Princess Tasnim Station, which allow implementation of local and international projects, transferring international experiences, adoption of best practices and implementation of scientific researches in food and agricultural security, BAU also, sells its farms products to the its population with affordable prices.

In addition to that, the university has large protected natural areas that reserve plants and animal's genetic assets, and has ecosystems contain medical plants, wild animals, and birds' shelters, which are monitored and protected from hunting, interference, aggression, and other types of human intervention.



General View of Princess Tasnim Station

SCIENTIFIC RESEARCH



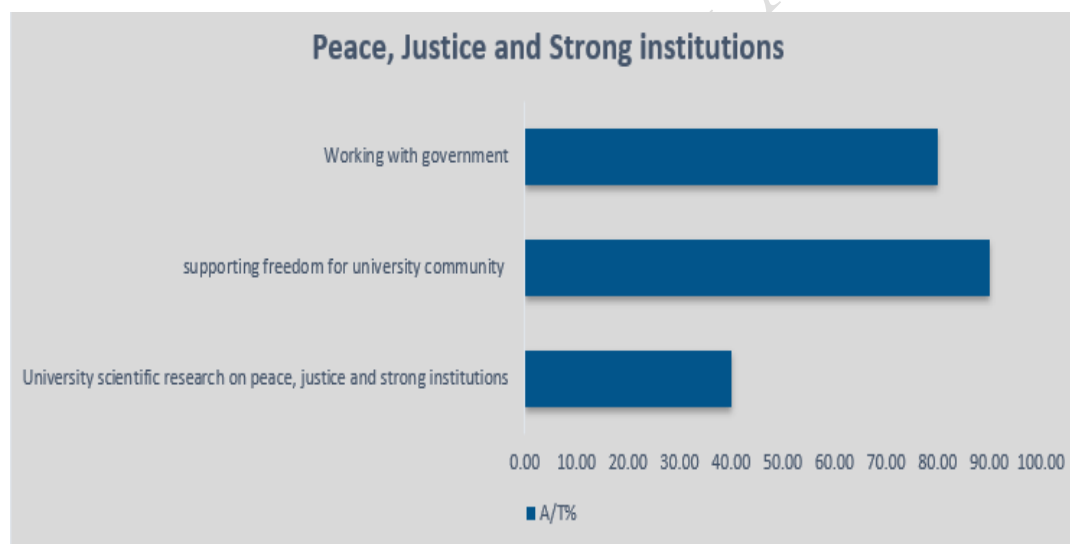
[Publications at Al-Balqa Applied University within SDG 15: Life on Land \(2017\)](#)

Peace, Justice and Strong institutions:

We cannot hope for sustainable development without peace, stability, human rights, and effective governance, based on the rule of law. Yet our world is increasingly divided. Some regions enjoy peace, security, and prosperity, while others fall into seemingly endless cycles of conflict and violence. This is not inevitable and must be addressed.

The SDGs aim to significantly reduce all forms of violence, and work with governments and communities to end conflict and insecurity. Promoting the rule of law and human rights are key to this process, as is reducing the flow of illicit arms and strengthening the participation of developing countries in the institutions of global governance.

Jordan aims to boost its standing at the regional and international levels by eradicating corruption in a variety of sectors, eliminating abuse and violence in all its manifestations, advancing the rule of law, and ensuring that everyone has equitable access to the justice system.



[Strategic Achievement for SDG16 /2022](#)

BAU is committed to promoting inclusive and peaceful societies for sustainable development, ensuring everyone has access to justice, and creating inclusive institutions at all levels. it has established several objectives, some of which are listed below:

- 1.scientific research on peace, justice, and strong institutions.
2. supporting freedom for the university community.
- 3.University commitment against corruption.

PRACTICES

Al-Balqa Applied University honors itself in diversity and equity for all community members and believes in concepts of peace and justice. This is both the recognition of loss and pain, and the recognition that as that pain lifts over time we look towards new hope-filled early development for firstly others and then ourselves.

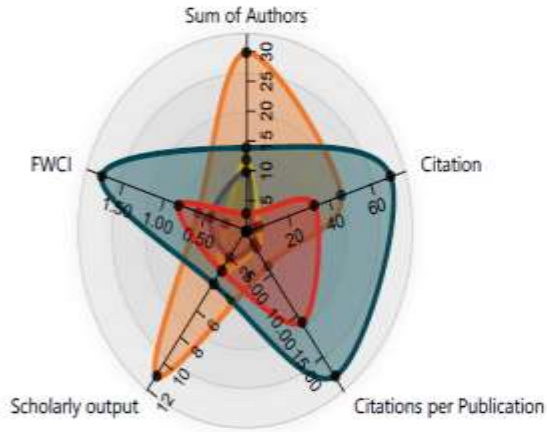
BAU adopts governance by recognizing student unions and allowing representation on university councils. Along with supporting academic freedom, diversity, and equity for all community members, it also contains measures to involve local stakeholders and adheres to the ideals of peace and justice.



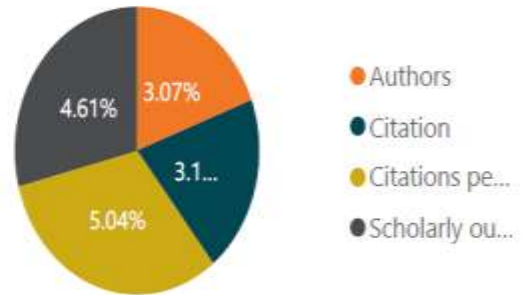
SCIENTIFIC RESEARCH

SDG_16 KPI's Results over [2017 - 2022]

Years 2020 2019 2017 2021 2018 2022



SDG_16 Weight of Total SDG's



[Publications at Al-Balqa Applied University within SDG 16: Peace, Justice and Strong Institution 2017 to 2022](#)

Development and Quality As

Partnership for the Goals:



Al-Balqa Applied University is committed to the United Nations Sustainable Development Goals (UN-SDGs), and it adopts a sustainable continuous improvement policy, that aims to implement SDGs in all strategic and action plans through a lot of initiatives, projects, and programs.

Consequently (BAU) has effective institutional resources management, innovative teaching and learning, oriented scientific research, national and international partnerships, enhancing outreach activities. (BAU) also undertakes different activities such as Participation in higher education committees and sectoral dialogue, formulation and developing related SDG policies, establishing a sustainability office, identifying the SDGs related to each faculty, program, and course, and implementation of sustainability-related initiatives, BAU set its goals in strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development.

1. Building national and international partnerships for supporting SDGs
2. Increasing international collaboration data gathering for SDGs
3. Increasing Publication for SDGs
4. Having commitment to meaningful education around the SDGs across the university



[Strategic achievement for SDG17/2022](#)

PRACTICES

The university's global engagement is aligned with the university's strategic plan and objectives. (BAU) enjoys a growing network of local and global partners, these partnerships are strengthened via academic, developments and research agreements in addition to mobility.



[BAU participate in the 8th Global ICT Leadership Forum at Korea](#)

BAU's partnerships in research and curriculum development are focused on addressing the UN Sustainable Development Goals, global challenges and reducing inequalities. It also facilitates staff and students' mobility, capacity building and provides various collaboration opportunities that ensure life-long learning, and professional and academic growth. BAU's mobility partnerships allow students to engage with different cultures and to grow as global citizens. These mobility opportunities play a vital role in preparing students to live and work in a multi-cultural world and make a positive difference in the world.



[WATRA Week II](#)

BAU is supporting SDGs by its membership in a United Nations Academic Impact (UNAI), also and a United Nation - Sustainable Development Solution Network (UNSDSN), also it adopts a sustainable continuous improvement policy, that aims to implement SDGs in all strategic and action plans.

It's worth to mention that BAU manages its partnerships by the Cooperation and International Relations unit to explore, develop, foster, and manage its local and international engagements in a manner that reflects

and furthers the university's strategic objectives, and it has a business model support the stakeholder engagement strategy to ensure the widest participation from all government and nonmovement organizations and private sector in the SDGs implementation.

BAU also contributes in the developing of policies in cooperation with governmental and NGOs through its representation in different steering committees (national, regional and international), which are directly related to SDGs adopted by the UN, BAU also participates in many conferences, dialogues and workshops, as well as preparing and publishing joint reports that include different data, these data are analyzed and presented in a way that helps governments and leaders to make appropriate decisions in the field of community development. (Economically, Socially, and Environmentally) and solving its problems.



Published by:

Development and Quality Assurance Center (DQAC_2022)

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